

Title (en)

ALBUMIN-FIXED RESIN, PROCESS FOR ITS PRODUCTION, METHOD OF USING IT TO REMOVE NOXIOUS SUBSTANCES FROM SOLUTIONS CONTAINING THEM, AND ITS USE IN REMOVING NOXIOUS SUBSTANCES FROM BLOOD

Publication

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Application

EP 80304031 A 19801111

Priority

JP 14550379 A 19791112

Abstract (en)

[origin: EP0028937A2] The invention provides an albumin-fixed resin comprising a crosslinked water-insoluble resin and albumin chemically bound thereto, said water-insoluble resin being a crosslinked epoxy resin containing 1 to 30 milliequivalents of amino groups and 1 to 50 milliequivalents of hydroxyl groups per gram thereof, said albumin being bound ionically to the amino groups and by hydrogen bonding to the hydroxyl groups, and the amount of said albumin fixed being at least 25% by weight based on the epoxy resin. <??>Also provided is a process for producing the albumin-fixed resin, which process comprises (1) (a) subjecting a polyepoxy compound containing at least two epoxy groups in the molecule, and a polyamine compound containing at least two primary and/or secondary amino groups in the molecule to addition reaction in an inert medium to produce a fully crosslinked resin, or (b) subjecting said polyepoxy and polyamine compounds to addition reaction to produce an incompletely crosslinked pre-polymer, and then reacting the pre-polymer with at least one organic polyisocyanate, organic polyisothiocyanate or organic polycarboxylic acid halide to crosslink the pre-polymer fully, and (2) contacting the resulting crosslinked epoxy resin containing 1 to 30 milliequivalents of amino groups and 1 to 50 milliequivalents of hydroxyl groups per gram thereof intimately with an aqueous solution containing albymin, optionally after partially neutralizing the amino groups of the epoxy resin. <??>The albumin-fixed resin is useful for removing noxious substances capable of binding to albumin, such as bilirubin, from the blood of a warm-blooded animal.

IPC 1-7

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IPC 8 full level

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C-Set (source: EP US)

1. **A61L 33/068** + **C08L 63/00**
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